UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,010	08/01/2006	Alessandro Morelli	6759/PCT	1241
	7590 04/09/200 REINER, L.L.C.	EXAMINER		
P.O. BOX 3201	.60	DESAI, HEMANT		
ALEXANDRIA, VA 22320-0160			ART UNIT	PAPER NUMBER
			3721	
			MAIL DATE	DELIVERY MODE
			04/09/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/588,010	MORELLI ET AL.
Office Action Summary	Examiner	Art Unit
	Hemant M. Desai	3721
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 22 Ja 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloward closed in accordance with the practice under Expression in the condition of the condition of the condition is in condition.	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 21-46 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.	
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

Application/Control Number: 10/588,010 Page 2

Art Unit: 3721

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 21-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banks (3229974) in view of Wingate (5064180).

Banks discloses a folding machine to fold a web material along transverse folding lines comprising at least one folding cylinder (27, 28, fig. 1) equipped with at least one gripping member (34, 37) to grasp the web material along a folding line.

Banks does not disclose an electrostatic system to attract the web material in the groove. However, Wingate discloses that it is well known in the art to provide an electrostatic system (4-10, 16-17, 35, figs. 1-2) to attract the web material to eliminate moving mechanical parts, to reduce noise and to achieve an improved accuracy of transfer of the signature (see col. 1, lines 49-55). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the folding machine of Banks with the electrostatic system of Wingate to attract the web material into the groove to eliminate moving mechanical parts, to reduce noise and to achieve an improved accuracy of transfer of the signature.

Art Unit: 3721

Regarding claims 22 and 43, the modified folding machine of Banks teaches a system (16, 17, fig. 1 of Wingate) to electrostatically charge the web material before the web material reaches the gripping member.

Regarding claims 23-24 and 44-45, the modified folding machine of Yamauchi teaches that the two folding cylinders having parallel axes are present in counterrotating relation to each other, each of said two folding cylinders being equipped with a gripping member with the electrostatic system.

Regarding claims 25-27, Banks discloses that the at least one gripping member comprises a movable element (via 34 and 37) cooperating with a first stop (Fig. 2; via surface 42) and second stop (via surface 33); the first stop and second stop defining a slot essentially parallel to an axis of rotation of a respective folding roller of the at least one folding roller (Figs. 1 and 2), the movable element (34) extending in the slit.

Regarding claim 28, as mentioned above, the modified folding machine of Banks meets all the claimed limitations. Note that, Wingate teaches retaining members (3-10, fig. 1), kept at an electrostatic potential to cause attraction of the web. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide retaining members, kept at an electrostatic potential in the cavity of folding cylinder of Banks as taught by Wingate to cause attraction of the web.

Regarding claims 29 and 30, Banks discloses that a first block defining the first stop is fixed in the cavity (via portion of surface 42, could be consider as block) and a second block defining the second stop (via 33).

Regarding claim 31, the folding machine of Banks discloses that each of the at least one gripping member includes an elastic plate (rubber jaw 34).

Regarding claim 32, the folding machine of Banks discloses a cutting unit (4, 6) associated with the folding cylinder to cut the web material into individual sheets.

Regarding claim 33, the folding machine of Banks discloses that the cutting unit comprises two cylinders (6, 4) with axes parallel to each other and to a respective one of the at least one folding cylinder, the two cylinders being counter-rotating and defining therebetween a nip through which the web material passes, and the two cylinders being equipped with blades and counter-blades to cut the web material, and wherein one of the two cylinders forming the cutting unit form together with the at least one folding cylinder a nip through which the cut web material passes.

Regarding claims 34-36, the folding machine of Banks discloses that the folding cylinder cooperates with a counter-cylinder, on which a boss (38) is provided, extending parallel to the axis of the cylinder, the boss being phased with respect to the at least one gripping member to facilitate folding of the web material.

Regarding claims 37 and 46, Banks discloses a method for folding a web material along transverse folding lines, comprising, arranging at least one folding cylinder (27, 28), providing on the folding cylinder at least one gripping member (34, 37) and at least one cavity (42, 44), arranging the at least one cavity essentially parallel to an axis of rotation of the cylinder and opening onto a cylindrical surface of the at least one folding cylinder, providing and housing the at least one gripping member and retaining member (34, 33) inside the at least one cavity to grasp the web material along

a folding line, and inserting the web material into the at least one cavity and the at least one gripping member.

Banks does not disclose an electrostatic system to attract the web material in the groove. However, Wingate discloses that it is well known in the art to provide an electrostatic system (4-10, 16-17, 35, figs. 1-2) to attract the web material to eliminate moving mechanical parts, to reduce noise and to achieve an improved accuracy of transfer and grip of the signature (see col. 1, lines 49-55). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the folding machine of Banks with the electrostatic system of Wingate to attract the web material into the groove to eliminate moving mechanical parts, to reduce noise and to achieve an improved accuracy of transfer of the signature.

Regarding claim 38, Banks discloses that the two folding cylinders with parallel axes in counter-rotating relationship and defining a nip through which the web material is made to pass, each of the folding cylinder being equipped with the gripping member, and engaging the web material alternately with a respective one of the at least one gripping member of a first one of the at least one folding cylinder and with a respective one of the at least one gripping member of a second one of said at least one folding cylinder, to fold said web material with a zigzag configuration (see fig. 1).

Regarding claim 39, Banks discloses that the web material is gripped between a stop fixed with respect to a respective one of the at least one folding cylinder and a movable element.

Application/Control Number: 10/588,010 Page 6

Art Unit: 3721

Regarding claim 40, Banks discloses that folding is facilitated in the web material in front of the at least one gripping member.

Regarding claim 41, Banks discloses that, the folding is facilitated by a boss (35) provided on a cylinder positioned opposite the at least one folding cylinder.

Regarding claim 42, Banks discloses that, the at least one gripping member does not cooperate mechanically with the boss.

Response to Arguments

- 3. Applicant's arguments with respect to claims 21-42 have been considered but are moot in view of the new ground(s) of rejection.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hemant M. Desai whose telephone number is (571) 272-4458. The examiner can normally be reached on 6:30 AM-5:00 PM, Mon-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi I. Rada can be reached on (571) 272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/588,010 Page 7

Art Unit: 3721

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hemant M Desai/ Primary Examiner, Art Unit 3721